

### **Amendments to the Specification**

Please replace paragraphs [0031] and [0032] with the following amended paragraphs:

[0031] figure 2 is a schematic diagram of a pump system known in the art and described above; ~~and~~

[0032] figure 3 is a schematic diagram of another pump system embodying the present ~~invention.~~ invention;

Please add the following new paragraphs after paragraph [0032]:

[0032.1] figure 4 is a schematic diagram of a pump system that is an alternative embodiment of the pump system shown in Figure 3;

[0032.2] figure 5 is a schematic diagram of a pump system that is another alternative embodiment of the pump system shown in Figure 3; and

[0032.3] figure 6 is a schematic diagram of a pump system that is yet another alternative embodiment of the pump system shown in Figure 3.

Please replace paragraph [0048] with the following amended paragraph:

[0048] Another embodiment is provided by an arrangement where a single pump is disposed between the mixer and analyser and one, or both of the flow rates in the first or second pipe is controlled by at least one valve, or variable constriction. The valve, or valves, can be controlled by the pump controller, or a separate valve controller in communication with the pump controller. In this regard, Figure 4 is a schematic diagram of a pump system that is an alternative embodiment of the pump system shown in Figure 3. The pump system of Figure 4 differs from the pump system of Figure 3 in that, as discussed above, the pump 54 has been omitted in favor

of a single pump 64, and a valve or variable constriction 101 is provided in the first pipe 56 to control the flow rate therethrough. Figure 5 is a schematic diagram of a pump system that is another alternative embodiment of the pump system shown in Figure 3. The pump system of Figure 5 differs from the pump system of Figure 3 in that, as discussed above, the pump 54 has been omitted in favor of a single pump 64, and a valve or variable constriction 102 is provided in the second pipe 60 to control the flow rate therethrough. Figure 6 is a schematic diagram of a pump system that is yet another alternative embodiment of the pump system shown in Figure 3. The pump system of Figure 6 differs from the pump system of Figure 3 in that, as discussed above, the pump 54 has been omitted in favor of a single pump 64, a valve or variable constriction 101 is provided in the first pipe 56 to control the flow rate therethrough, and a valve or variable constriction 102 is provided in the second pipe 60 to control the flow rate therethrough.